	Application No.		Applicant(s)	
Notice of Allowability	10/735,575		OBARA ET AL.	
Notice of Allowability	Examiner	•	Art Unit	
	Nikita Wells	·	2881	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAIN) or other appr IGHTS. This	<ul><li>IS) CLOSED in this ap- copriate communication application is subject to</li></ul>	plication. If not includ will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to <u>Application filed 11 D</u>	ecember 200	<u>3</u> .		
2. The allowed claim(s) is/are <u>1-23</u> .				
3. $\boxtimes$ The drawings filed on <u>11 December 2003</u> are accepted by	the Examiner			
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been receive e been receive	ed. ed in Application No		ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			complying with the re-	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give				OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitte	d.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached				
1)  hereto or 2)  to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				∍ back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLO	GICAL MATERIAL r	must be submitted.	Note the
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 102804)</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit</li> </ul>	6. [ 08), 7. [ 8. [	☐ Notice of Informal F☐ Interview Summary Paper No./Mail Dai☐ Examiner's Amendr	(PTO-413), te ment/Comment	ŕ
of Biological Material	9. [	Other		
			Nikita Wells Primary Examiner Art Unit: 2881	

## **Detailed Action**

## Allowable Subject Matter

- 1. Claims 1-23 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

With respect to the independent claims 1, 10, 17, and 21, prior art fails to disclose or make obvious, in combination with other recited features of the claim limitations, a method and a device of analyzing the compositions of defects comprising the steps of: moving a stage and setting a sample placed on the stage to an observation position; obtaining a secondary particle image of a first resolution of the sample by irradiating and scanning a first electron beam focused on the sample set at the observation position and detecting secondary particles emitted from the sample; determining the position of a defect on the sample using the secondary particle image of the first resolution of the sample; obtaining a secondary particle image of a second resolution of the sample by irradiating and scanning an electron beam focused on the determined position of the defect and detecting secondary particles emitted from the sample; obtaining information of a defect region on the sample using the secondary particle image of the second resolution of the sample; selecting a target defect to be analyzed on the basis of the obtained information of the defect region; and analyzing the selected target defect.

With respect to the independent claim 4, prior art fails to disclose or make obvious, in combination with other recited features of the claim limitations, a method and a device of analyzing the composition of defects, comprising the steps of moving a stage and setting a sample placed on the stage to an observation position; obtaining an image of the sample by irradiating and scanning an electron beam focused on the sample set at the observation position;

Art Unit: 2881

determining the positions of plural defects on the sample from the image of the sample;

acquiring magnification images of the plural defects by irradiating and scanning an electron

beam focused on the basis of the determined position information; and extracting a target defect

to be analyzed on the basis of the magnification images of the acquired plural defects.

The dependent claims 2-3, 11-16, 18-20, and 22-23, are allowable by virtue of their dependence upon the independent claims 1, 10, 17, and 21, respectively. The dependent claims 5-9 are allowable by virtue of their dependence upon the independent claim 4.

## Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nara et al. (6,480,279 B2), Machida et al. (6,476,913 B1), and Ninomiya et al. (6,792,359 B2) disclose a method and apparatus for the inspection of defects in a circuit pattern by using an image formed by the irradiation of a charged particle beam.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikita Wells whose telephone number is (571) 272-2484. The examiner can normally be reached on 8:30 AM 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (571) 272-2477. The central fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this

Application/Control Number: 10/735,575

Art Unit: 2881

application or proceeding should be directed to the receptionist whose telephone number is (703)

308-0956.

6. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nikita Wells, Primary Examiner

Page 4

Art Unit 2881

October 28, 2004